

Conserved Domain Database

PubMed

Nucleotide

Protein

Structure

CDD

Taxonomy

Help?

CD: [smart00087.10](#), PTH, Query added

PSSM-Id: 77

Source: Smart

Description: Parathyroid hormone;

Taxa: Amniota

References: [1 Pubmed Link](#)

Status: Alignment from source

Created: 12-Dec-2003

Aligned: 6 rows

PSSM: 36 columns

Representative: Consensus

Proteins: [\[Click here for CDART summary of Proteins containing smart00087\]](#)as 

width 60

color at

	10	20	30
***
consensus	1 KRAVSEHQLMHNLGKHIQDLERREWLNQKKLQDVHTA	36	
query	1 --SVSEIQQ-AHNAGKHLNSNERVEWLRKKLQDVHN-	32	
gi_131544	35 KRAVSEHQLLHDKGKSIQDLRRRFFLHHLIAEHTA	70	
gi_131541	36 KRAVSEHQLLHDKGKSIQDLRRRIFLQNLIIEGVNTA	71	
gi_131545	30 KRAVSEIQQFMHNLGKHLSSMERVEWLRKKLQDVHNF	65	
gi_131546	30 KRSVSEMQLMHNLGEHRHTVERQDWLQMKLQDVHSA	65	
gi_131548	30 KRSVSEIQLMHNLGKHLSSLERVEWLRKKLQDVHNF	65	

Citing CDD: Marchler-Bauer A, Anderson JB, DeWeese-Scott C, Fedorova ND, Geer LY, He S, Hurwitz DI, Jackson JD, Jacobs AR, Lanczycki CJ, Liebert CA, Liu C, Madej T, Marchler GH, Mazumder R, Nikolskaya AN, Panchenko AR, Rao BS, Shoemaker BA, Simonyan V, Song JS, Thiessen PA, Vasudevan S, Wang Y, Yamashita RA, Yin JJ, Bryant SH (2003), "CDD: a curated Entrez database of conserved domain alignments", *Nucleic Acids Res.* 31: 383-387

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FILE 'HOME' ENTERED AT 15:33:07 ON 11 MAY 2004

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FULL ESTIMATED COST	0.06	0.27

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=> S cyclohexylalanine AND Cha AND pth2
L1 0 CYCLOHEXYLALANINE AND CHA AND PTH2

=> S PTH AND cyclohexylalanine
L2 0 PTH AND CYCLOHEXYLALANINE

=> S SVSEIQaHNaGKHLNSNERVELRKKLQDVHN
L3 0 SVSEIQAHNAGKHLNSNERVELRKKLQDVHN

=> S SVSEIQ*
L4 0 SVSEIQ*

=> S PTH2 RECEPTOR LIGAND
L5 2 PTH2 RECEPTOR LIGAND

=> DUP REM
ENTER L# LIST OR (END):L5
PROCESSING COMPLETED FOR L5
L6 1 DUP REM L5 (1 DUPLICATE REMOVED)

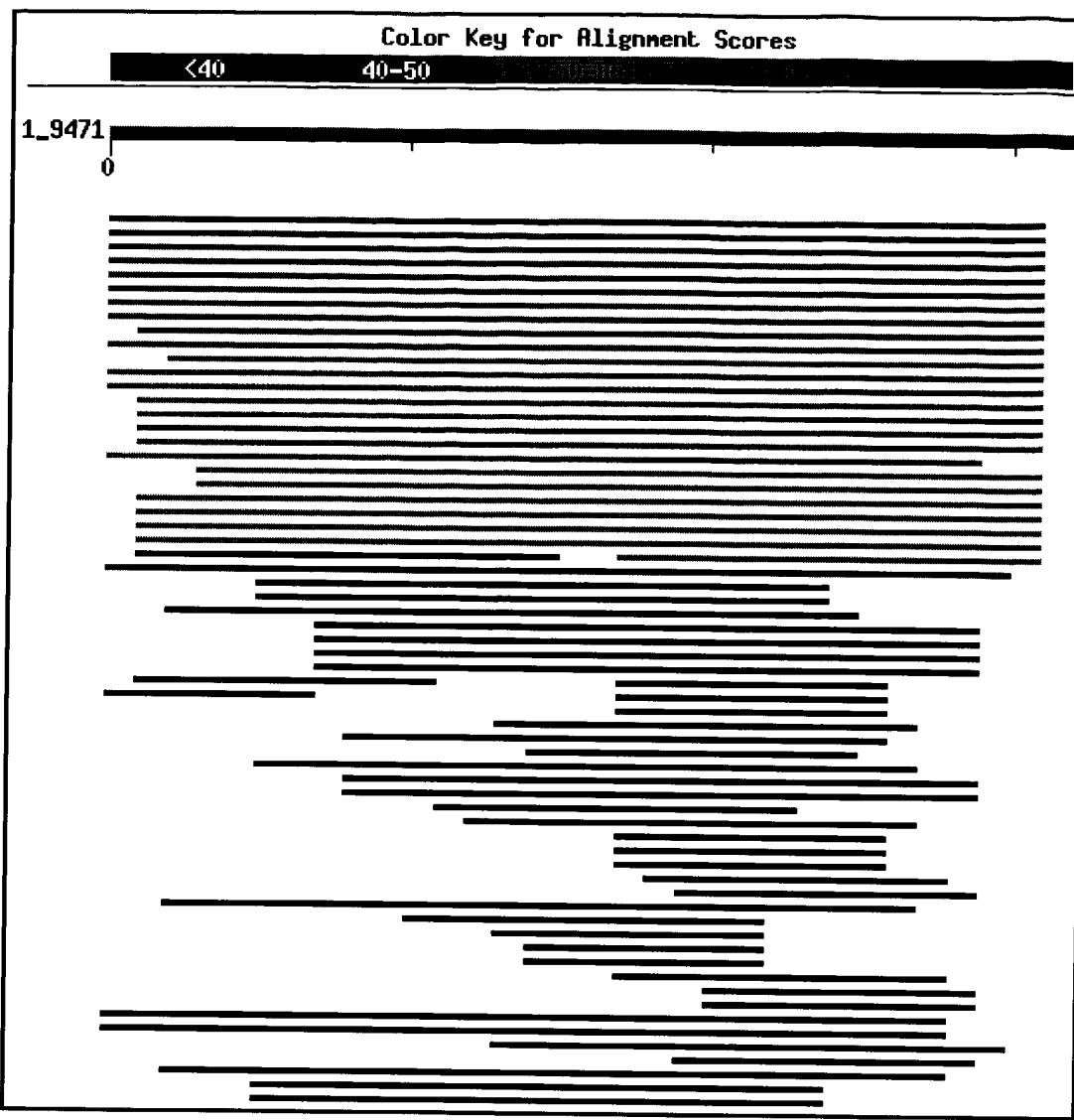
=> D

L6 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
AN 1999427840 MEDLINE
DN PubMed ID: 10499494
TI Comparison of rat and human parathyroid hormone 2 (PTH2) receptor
activation: PTH is a low potency partial agonist at the rat PTH2 receptor.
AU Hoare S R; Bonner T I; Usdin T B
CS Unit on Cell Biology, Laboratory of Genetics, National Institute of Mental
Health, Bethesda, Maryland 20892-4094, USA.
SO Endocrinology, (1999 Oct) 140 (10) 4419-25.
Journal code: 0375040. ISSN: 0013-7227.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199910
ED Entered STN: 19991026
Last Updated on STN: 19991026
Entered Medline: 19991012

=> LOGOFF HOLD
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
5.80	6.07

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:37:51 ON 11 MAY 2004



Related Structures

Score (bits)	E Value
Sequences producing significant alignments:	
gi 7416876 gb AAF62347.1 parathyroid hormone [Equus caballus]	85 1e-16
gi 13124462 sp Q9XT35 PTH_MACFA Parathyroid hormone precurs...	85 1e-16
gi 6980561 pdb 1BWX The Solution Structure Of Human Parat...	85 1e-16
gi 209186 gb AAA73011.1 parathyroid hormone >gi 565142 gb ...	85 1e-16
gi 1942096 pdb 1ZWA Structure Of Human Parathyroid Hormon...	85 1e-16
gi 1065314 pdb 1HPH Human Parathyroid Hormone Fragment 1 ...	85 1e-16
gi 4506267 ref NP_000306.1 parathyroid hormone preproprote...	85 1e-16
gi 1942097 pdb 1ZWB Structure Of Human Parathyroid Hormon...	83 8e-16
gi 131548 sp P01269 PTHY_PIG PARATHYROID HORMONE PRECURSOR ...	83 8e-16
gi 1709894 sp P52212 PTHY_CANFA PARATHYROID HORMONE PRECURS...	82 1e-15
gi 1942099 pdb 1ZWD Structure Of Human Parathyroid Hormon...	80 6e-15
gi 229314 prf 701028A parathyrin	79 9e-15
gi 1942098 pdb 1ZWC Structure Of Bovine Parathyroid Hormo...	79 9e-15

gi 163647 gb AAA30749.1	preproparathyroid hormone	79	9e-15	L
gi 11119195 gb AAG30545.1	preproparathyroid hormone [Felis...	79	9e-15	
gi 31982386 ref NP_776379.2	parathyroid hormone [Bos tauru...	79	9e-15	L
gi 2624852 pdb 1HTH	The Solution Structure Of Cyclic Huma...	79	9e-15	S
gi 11513553 pdb 1FVY A	Chain A, Solution Structure Of The O...	78	2e-14	S
gi 1942100 pdb 1ZWE	Structure Of Human Parathyroid Hormon...	77	4e-14	S
gi 2392655 pdb 1ZWF	Structure Of N-Terminal Acetylated Hu...	77	4e-14	S
gi 30387856 gb AAP32220.1	hypothalamic parathyroid hormone...	71	2e-12	
gi 8394100 ref NP_058740.1	parathyroid hormone [Rattus nor...	71	2e-12	L
gi 10181174 ref NP_065648.1	parathyroid hormone; parathyro...	65	2e-10	L
gi 2118603 pir I51851	parathyroid hormone - rat (fragment)...	64	3e-10	
gi 208546 gb AAA72765.1	parathyroid hormone	54	3e-07	
gi 45382055 ref NP_990783.1	thyroid hormone [Gallus gallus...	45	2e-04	L
gi 6578847 gb AAF18100.1	RELISH [Drosophila simulans]	31	3.1	
gi 6578842 gb AAF18095.1	RELISH [Drosophila simulans] >gi ...	31	3.1	
gi 6681203 ref NP_031894.1	dystrophin, muscular dystrophy;...	30	4.1	L
gi 9790306 ref NP_062879.1	nonstructural polyprotein [Ross...	30	4.1	
gi 21230449 ref NP_636366.1	DNA polymerase III epsilon cha...	30	4.1	
gi 14485761 gb AAK63071.1	parathyroid hormone precursor [P...	30	4.1	
gi 34880638 ref XP_229016.2	similar to dystrophin major mu...	30	4.1	L
gi 25121493 ref NP_740679.1	nsP2 protein [Ross River virus]	30	4.1	
gi 130544 sp P13887 POLN RRVN	Nonstructural polyprotein [Co...	30	4.1	
gi 1169358 sp P11531 DMD MOUSE	Dystrophin >gi 478748 pir I5...	30	4.1	L
gi 34881930 ref XP_347351.1	similar to dystrophin major mu...	30	4.1	L
gi 15225157 ref NP_180751.1	expressed protein [Arabidopsis...	30	5.5	
gi 27803069 emb CAD60772.1	unnamed protein product [Podosp...	29	7.4	
gi 21226751 ref NP_632673.1	glucosyltransferase [Methanosa...	29	7.4	
gi 21219194 ref NP_624973.1	conserved hypothetical protein...	29	13	
gi 23237772 dbj BAC16514.1	DASK1 [Drosophila melanogaster]	29	13	
gi 46908685 ref YP_015074.1	helicase family protein [Liste...	29	13	
gi 24648284 ref NP_477089.2	CG4720-PA [Drosophila melanoga...	29	13	L
gi 45546033 ref ZP_00186140.1	COG0824: Predicted thioester...	29	13	
gi 15227946 ref NP_181775.1	meprin and TRAF homology domai...	29	13	
gi 33944625 ref XP_340460.1	GTP-binding elongation factor ...	29	13	
gi 32401356 gb AAP80850.1	ATP-binding protein of ABC trans...	29	13	
gi 16804551 ref NP_466036.1	similar to late competence pro...	29	13	
gi 47015567 gb EAL06499.1	competence protein, putative [Li...	29	13	
gi 23471851 ref ZP_00127180.1	COG2120: Uncharacterized pro...	28	18	
gi 8118486 gb AAF72998.1	glutathione-S-transferase [Vibrio...	28	18	
gi 13124709 sp O32513 ENO DESVM	Enolase (2-phosphoglycerate...	28	18	
gi 33859803 ref NP_796294.1	RIKEN cDNA F730038I15 gene [Mu...	28	18	L
gi 26354546 dbj BAC40901.1	unnamed protein product [Mus mu...	28	18	L
gi 23023912 ref ZP_00063140.1	COG0136: Aspartate-semialdehy...	28	18	
gi 31207383 ref XP_312658.1	ENSANGP00000020654 [Anopheles ...	28	18	
gi 15601256 ref NP_232887.1	glutathione S-transferase, put...	28	18	
gi 33239720 ref NP_874662.1	Isoleucyl-tRNA synthetase [Pro...	28	18	
gi 5532938 gb AAD44944.1	MHC class I heavy chain [Ambystom...	28	18	
gi 40746939 gb EAA66095.1	hypothetical protein AN0222.2 [A...	28	18	
gi 38110793 gb EAA56460.1	hypothetical protein MG06431.4 [...	28	24	
gi 26248475 ref NP_754515.1	Hypothetical sugar kinase yegV...	28	24	
gi 21450297 ref NP_659157.1	UDP-N-acetyl-alpha-D-galactosa...	28	24	L
gi 24113476 ref NP_707986.1	putative kinase [Shigella flex...	28	24	
gi 40786485 ref NP_955425.1	UDP-N-acetyl-alpha-D-galactosa...	28	24	
gi 38101314 gb EAA48295.1	hypothetical protein MG10554.4 [...	28	24	L

gi 21529333 emb CAC79625.2 	UDP-GalNAc:polypeptide N-acetyl...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 39753709 gb AAR30402.1 	NADH dehydrogenase subunit F [Ca...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 5630076 gb AAD45821.1 	N-acetylgalactosaminyltransferase...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 22024024 ref NP_523820.2 	CG9889-PA [Drosophila melanoga...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 27364478 ref NP_760006.1 	Sun protein [Vibrio vulnificus...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 15802575 ref NP_288602.1 	putative kinase [Escherichia c...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 11545801 ref NP_071370.1 	GALNAC-T11 [Homo sapiens] >gi ...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 38100969 gb EAA48013.1 	hypothetical protein MG09143.4 [...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 26352932 dbj BAC40096.1 	unnamed protein product [Mus mu...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 38102749 gb EAA49551.1 	hypothetical protein MG08466.4 [...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 34557142 ref NP_906957.1 	HYDROXY-DEHYDRATASE ACTIVATOR ...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 37681411 ref NP_936020.1 	sun protein [Vibrio vulnificus...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 10438776 dbj BAB15338.1 	unnamed protein product [Homo s...	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 21429970 gb AAM50663.1 	GH20107p [Drosophila melanogaster]	<u>28</u>	24	<input checked="" type="checkbox"/>
gi 25152947 ref NP_497872.2 	GLYcosylation related, UDP-N-a...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 45825856 gb AAS77593.1 	RELISH [Drosophila mauritiana]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 12842280 dbj BAB25542.1 	unnamed protein product [Mus mu...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 45825858 gb AAS77594.1 	RELISH [Drosophila mauritiana]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 45825866 gb AAS77598.1 	RELISH [Drosophila mauritiana]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 46488050 gb AAS99367.1 	Relish [Drosophila sechellia]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 32567074 ref NP_504981.2 	carboxylesterase, type B famil...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 34558222 ref NP_908037.1 	hypothetical protein WS1928 [W...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 45825862 gb AAS77596.1 	RELISH [Drosophila mauritiana]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 15678500 ref NP_275615.1 	DNA helicase II [Methanothermo...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 27924341 gb AAH45036.1 	Cg2107-prov protein [Xenopus lae...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 27374208 gb AAO00972.1 	Pk92B-PA [Drosophila erecta]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 38234205 ref NP_939972.1 	Putative asparagine synthetase...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 45825864 gb AAS77597.1 	RELISH [Drosophila mauritiana]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 33859650 ref NP_035973.1 	membrane bound C2 domain conta...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 8393755 ref NP_058945.1 	membrane bound C2 domain contai...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 46135507 ref ZP_00162994.2 	COG0457: FOG: TPR repeat [An...	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 46488052 gb AAS99368.1 	Relish [Drosophila sechellia]	<u>27</u>	32	<input checked="" type="checkbox"/>
gi 46488048 gb AAS99366.1 	Relish [Drosophila sechellia]	<u>27</u>	32	<input checked="" type="checkbox"/>

Alignments

[Get selected sequences](#) [Select all](#) [Deselect all](#)

>[gi|7416876|gb|AAF62347.1|](#) parathyroid hormone [Equus caballus]
Length = 86

Score = 85.5 bits (194), Expect = 1e-16
Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
Sbjct: 3 SVSEIQLMHNLGKHLNSVERVEWLRKKLQDVHN 35

>[gi|13124462|sp|Q9XT35|PTH_MACFA](#) Parathyroid hormone precursor (Parathyrin) (PTH
[gi|5359716|gb|AAD42777.1|](#) parathyroid hormone precursor [Macaca fascicularis]

Length = 115

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 32 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 64

►>gi|6980561|pdb|1BWX| **S** The Solution Structure Of Human Parathyroid Hormone Fragment 1-39, Nmr, 10 Structures
 Length = 39

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 1 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 33

►>gi|209186|gb|AAA73011.1| parathyroid hormone
gi|565142|gb|AAB31748.1| human parathyroid hormone; hPTH [synthetic construct]
 Length = 85

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 2 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 34

►>gi|1942096|pdb|1ZWA| **S** Structure Of Human Parathyroid Hormone Fragment 1-34, N Structures

gi|6980572|pdb|1HPY| **S** The Solution Structure Of Human Parathyroid Hormone Fragment 1-34, N In 20% Trifluoroethanol, Nmr, 10 Structures

gi|10120514|pdb|1ET1|A **S** Chain A, Crystal Structure Of Human Parathyroid Hormone 0.9 Å Resolution

gi|10120515|pdb|1ET1|B **S** Chain B, Crystal Structure Of Human Parathyroid Hormone 0.9 Å Resolution
 Length = 34

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 1 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 33

►>gi|1065314|pdb|1HPH| **S** Human Parathyroid Hormone Fragment 1 - 37 (Hpth(1-37))
 Structures)

Length = 37

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 1 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 33

► >gi|4506267|ref|NP_000306.1| L parathyroid hormone preproprotein; parathyrin; pa sapiens]
 gi|131547|sp|P01270|PTHY_HUMAN L Parathyroid hormone precursor (Parathyrin) (PTH)
 gi|2144647|pir||PTHU parathyroid hormone precursor [validated] - human
 gi|37144|emb|CAA23843.1| L unnamed protein product [Homo sapiens]
 gi|190704|gb|AAA60215.1| L preproparathyroid hormone
 Length = 115

Score = 85.0 bits (193), Expect = 1e-16
 Identities = 29/33 (87%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 32 SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 64

► >gi|1942097|pdb|1ZWB| S Structure Of Human Parathyroid Hormone Fragment 2-37, N Structures
 Length = 36

Score = 82.5 bits (187), Expect = 8e-16
 Identities = 28/32 (87%), Positives = 28/32 (87%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 VSEIQ HN GKHLNS ERVEWLRKKLQDVHN
 Sbjct: 1 VSEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 32

► >gi|131548|sp|P01269|PTHY_PIG PARATHYROID HORMONE PRECURSOR (PARATHYRIN) (PTH)
 gi|2144646|pir||PTPG parathyroid hormone precursor - pig
 gi|1839|emb|CAA29193.1| L unnamed protein product [Sus scrofa]
 Length = 115

Score = 82.5 bits (187), Expect = 8e-16
 Identities = 28/33 (84%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
 SVSEIQ HN GKHL+S ERVEWLRKKLQDVHN
 Sbjct: 32 SVSEIQLMHNLGKHLSSLERVEWLRKKLQDVHN 64

► >gi|1709894|sp|P52212|PTHY_CANFA PARATHYROID HORMONE PRECURSOR (PARATHYRIN) (PTH)
 gi|1085421|pir||JC4202 parathyroid hormone precursor - dog

gi|558916|gb|AAA82584.1| **L** parathyroid hormone precursor
Length = 115

Score = 81.7 bits (185), Expect = 1e-15
Identities = 28/33 (84%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
SVSEIQ HN GKHL+S ERVEWLRKKLQDVHN
Sbjct: 32 SVSEIQFMHNLGKHLSSMERVEWLRKKLQDVHN 64

gi|1942099|pdb|1ZWD| **S** Structure Of Human Parathyroid Hormone Fragment 3-37, N
Structures
Length = 35

Score = 79.5 bits (180), Expect = 6e-15
Identities = 27/31 (87%), Positives = 27/31 (87%), Gaps = 1/31 (3%)

Query: 3 SEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
SEIQ HN GKHLNS ERVEWLRKKLQDVHN
Sbjct: 1 SEIQLMHNLGKHLNSMERVEWLRKKLQDVHN 31

gi|229314|prf||701028A parathyrin
Length = 84

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/32 (84%), Positives = 28/32 (87%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
VSEIQ HN GKHL+S ERVEWLRKKLQDVHN
Sbjct: 2 VSEIQFMHNLGKHLSSMERVEWLRKKLQDVHN 33

gi|1942098|pdb|1ZWC| **S** Structure Of Bovine Parathyroid Hormone Fragment 1-37,
Structures
Length = 37

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/32 (84%), Positives = 28/32 (87%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
VSEIQ HN GKHL+S ERVEWLRKKLQDVHN
Sbjct: 2 VSEIQFMHNLGKHLSSMERVEWLRKKLQDVHN 33

gi|163647|gb|AAA30749.1| **L** preproparathyroid hormone
Length = 115

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/32 (84%), Positives = 28/32 (87%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
VSEIQ HN GKHL+S ERVEWLRKKLQDVHN

·Sbjct: 33 VSEIQFMHNLGKHLSSMERVEWLRKKLQDVHN 64

·
· **gi|11119195|gb|AAG30545.1|** preproparathyroid hormone [Felis catus]
Length = 115

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/33 (81%), Positives = 29/33 (87%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32

SVSEIQ HN GKHL+S ERVEWLR+KLQDVHN

Sbjct: 33 VSEIQFMHNLGKHLSSVERVEWLRKKLQDVHN 64

·
· **gi|31982386|ref|NP_776379.2|** L parathyroid hormone [Bos taurus]
gi|131545|sp|P01268|PTHY_BOVIN Parathyroid hormone precursor (Parathyrin) (PTH)
gi|69233|pir||PTBO parathyroid hormone precursor - bovine
gi|85|emb|CAA23439.1| L preproparathyroid hormone [Bos taurus]
gi|163643|gb|AAA30747.1| L preproparathyroid hormone
gi|163645|gb|AAA30748.1| L preproparathyroid hormone
Length = 115

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/32 (84%), Positives = 28/32 (87%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32

SVSEIQ HN GKHL+S ERVEWLRKKLQDVHN

Sbjct: 33 VSEIQFMHNLGKHLSSMERVEWLRKKLQDVHN 64

·
· **gi|2624852|pdb|1HTH|** S The Solution Structure Of Cyclic Human Parathyroid Hormone
Fragment 1 - 34, Nmr, 10 Structures
Length = 34

Score = 79.1 bits (179), Expect = 9e-15
Identities = 27/33 (81%), Positives = 27/33 (81%), Gaps = 1/33 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32

SVSEIQ HN G HLN ERVEWLRKKLQDVHN

Sbjct: 1 SVSEIQLXHNLGXHLNEXERVEWLRKKLQDVHN 33

·
· **gi|11513553|pdb|1FVY|A** S Chain A, Solution Structure Of The Osteogenic 1-31 Fragment Of The Human Parathyroid Hormone
Length = 31

Score = 77.8 bits (176), Expect = 2e-14
Identities = 27/31 (87%), Positives = 27/31 (87%), Gaps = 1/31 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDV 30

SVSEIQ HN GKHLNS ERVEWLRKKLQDV

Sbjct: 1 SVSEIQLMHNGLGKHLNSMERVEWLRKKLQDV 31

□ >gi|1942100|pdb|1ZWE| **S** Structure Of Human Parathyroid Hormone Fragment 4-37, N Structures
Length = 34

Score = 77.0 bits (174), Expect = 4e-14
Identities = 26/30 (86%), Positives = 26/30 (86%), Gaps = 1/30 (3%)

Query: 4 EIQ-AHNAGKHLNSNERVELRKKLQDVHN 32
EIQ HN GKHLNS ERVEWLRKKLQDVHN
Sbjct: 1 EIQLMHNLGKHLNSMERVELRKKLQDVHN 30

□ >gi|2392655|pdb|1ZWFI| **S** Structure Of N-Terminal Acetylated Human Parathyroid Ho Nmr, 10 Structures
gi|2392656|pdb|1ZWG| **S** Succinyl Human Parathyroid Hormone 4-37, Nmr, 10 Structur Length = 35

Score = 77.0 bits (174), Expect = 4e-14
Identities = 26/30 (86%), Positives = 26/30 (86%), Gaps = 1/30 (3%)

Query: 4 EIQ-AHNAGKHLNSNERVELRKKLQDVHN 32
EIQ HN GKHLNS ERVEWLRKKLQDVHN
Sbjct: 2 EIQLMHNLGKHLNSMERVELRKKLQDVHN 31

□ >gi|30387856|gb|AAP32220.1| hypothalamic parathyroid hormone [Rattus sp.]
Length = 105

Score = 71.5 bits (161), Expect = 2e-12
Identities = 25/32 (78%), Positives = 27/32 (84%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVELRKKLQDVHN 32
VSEIQ HN GKHL S ER++WLRKKLQDVHN
Sbjct: 23 VSEIQLMHNLGKHLASVERMQWLRKKLQDVHN 54

□ >gi|8394100|ref|NP_058740.1| **L** parathyroid hormone [Rattus norvegicus]
gi|131549|sp|P04089|PTHY RAT **L** Parathyroid hormone precursor (Parathyrin) (PTH)
gi|92588|pir||A05091 parathyroid hormone precursor - rat
gi|56003|emb|CAA29192.1| **L** unnamed protein product [Rattus norvegicus]
gi|206485|gb|AAA41979.1| **L** preproparathyroid hormone
Length = 115

Score = 71.5 bits (161), Expect = 2e-12
Identities = 25/32 (78%), Positives = 27/32 (84%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVELRKKLQDVHN 32
VSEIQ HN GKHL S ER++WLRKKLQDVHN
Sbjct: 33 VSEIQLMHNLGKHLASVERMQWLRKKLQDVHN 64

□ >gi|10181174|ref|NP_065648.1| **L** parathyroid hormone; parathyroid hormone precurs

gi|4092930|gb|AAC99656.1| **L** parathyroid hormone precursor [Mus musculus]
Length = 115

Score = 64.7 bits (145), Expect = 2e-10
Identities = 23/32 (71%), Positives = 27/32 (84%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
VSEIQ HN GKHL S ER++WLR+KLQD+HN
Sbjct: 33 VSEIQLMHNLGKHLASMERMQWLRRLQDMHN 64

□>gi|2118603|pir||I51851 parathyroid hormone - rat (fragment)
gi|601933|gb|AAA57156.1| parathyroid hormone precursor [Rattus norvegicus]
Length = 105

Score = 64.3 bits (144), Expect = 3e-10
Identities = 23/32 (71%), Positives = 26/32 (81%), Gaps = 1/32 (3%)

Query: 2 VSEIQ-AHNAGKHLNSNERVEWLRKKLQDVHN 32
+SEIQ HN GKHL S ER++WLRKKLQD HN
Sbjct: 23 ISEIQLMHNLGKHLASVERMQWLRKKLQDGHN 54

□>gi|208546|gb|AAA72765.1| parathyroid hormone
Length = 67

Score = 54.1 bits (120), Expect = 3e-07
Identities = 15/15 (100%), Positives = 15/15 (100%)

Query: 18 ERVEWLRKKLQDVHN 32
ERVEWLRKKLQDVHN
Sbjct: 2 ERVEWLRKKLQDVHN 16

□>gi|45382055|ref|NP_990783.1| **L** thyroid hormone [Gallus gallus]
gi|131546|sp|P15743|PTHY_CHICK PARATHYROID HORMONE PRECURSOR (PTH)
gi|86411|pir||A34937 parathyroid hormone precursor - chicken
gi|212592|gb|AAB02866.1| **L** parathyroid hormone precursor [Gallus gallus]
gi|212768|gb|AAA49093.1| **L** thyroid hormone precursor
Length = 119

Score = 44.8 bits (98), Expect = 2e-04
Identities = 19/32 (59%), Positives = 25/32 (78%), Gaps = 1/32 (3%)

Query: 1 SVSEIQ-AHNAGKHLNSNERVEWLRKKLQDVH 31
SVSE+Q HN G+H ++ ER +WL+ KLQDVH
Sbjct: 32 SVSEMQLMHNLGEHRHTVERQDWLQMQLQDVH 63

□>gi|6578847|gb|AAF18100.1| RELISH [Drosophila simulans]
Length = 817

Score = 30.8 bits (65), Expect = 3.1
Identities = 14/28 (50%), Positives = 16/28 (57%), Gaps = 8/28 (28%)